

City & Guilds Level 4 Certificate of Competence in ETR 132 Resilience Arboricultural Surveyor (0038-41)

Version 1.4 (January 2026)

Qualification Handbook

Qualification at a glance

Subject area	Utility Arboriculture
City & Guilds number	0038-41
Age group approved	18+
Entry requirements	Candidates must have achieved the following pre-requisites: Level 3 Certificate of Competence in Utility Arboriculture Basic Electrical Knowledge (0038-30) Level 3 Certificate of Competence in Utility Arboriculture Tree Species Recognition, Growth Characteristics and Associated Hazards (0038-31) and Level 4 Certificate of Competence in Utility Arboriculture Surveyor (0038-40) or equivalent qualifications. Centres must ensure that any pre-requisites stated are met. Candidate must meet minimum age requirements.
Assessment	To gain this qualification, candidates must successfully achieve the following assessments: One to one practical assessment with oral questioning by an NPTC City & Guilds approved assessor.
Grading	Met/Not Met
Approvals	Full Centre approval required
Support materials	Qualification Handbook (candidates). Assessment materials (approved assessment Centres only).
Registration and certification	Consult the Walled Garden/Online Catalogue for last Registration and Certification dates.

Title and level	City & Guilds qualification number	Regulatory reference number	GLH	TQT
City & Guilds Level 4 Certificate of Competence in ETR 132 Resilience Arboricultural Surveyor	0038-41	603/7892/X	16	18

Version and date	Change detail	Section
1.0	First version	
1.1 August 2024	Update of Quality Assurance Statement	Centre Requirements
1.2 February 2025	Update of 'Delivering the qualification' section	Delivering the qualification
	Formatting throughout	All
1.3 August 2025	AC 1.5 changed 'basic tree survey' to 'resilience tree survey'.	Unit 403
	AC 1.6 'management recommendations' added for fungi and notifiable diseases.	
	AC 1.7 updated factors for hardwood woodlands and commercial softwood forestry plantations.	
1.4 January 2026	Assessment timing updated	Assessment

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1 Introduction

This document tells you what you need to do to deliver the **City & Guilds Level 4 Certificate of Competence in ETR 132 Resilience Arboricultural Surveyor (0038-41)**.

Area	Description
OVERVIEW	
Who is this qualification for?	Individuals who operate around utility services as part of their work in arboriculture, forestry, or other industries. It will provide the individual with the knowledge, understanding and skills required to carry out a ETR 132 resilience arboriculture survey.
What does this qualification cover?	It covers Hazards, risks and controls, reasons behind undertaking an Electrical Technical Report ETR 132 survey, office-based pre-survey, tree inspection equipment, survey information, fungal decay organisms, notifiable pests and diseases, factors for hardwood woodlands and softwood forestry plantations, risk rating, machinery for tree management and tree inspection.
WHAT COULD THIS QUALIFICATION LEAD TO?	
Will the qualification lead to employment, and if so, in which job role and at what level?	This qualification will support progression into employment, where working around utility services is part of the role. Safe operational skills are key to efficient use, good working practice and preventing accidents, leading to business benefits in terms of less machinery damage and down time.
Why choose this qualification over similar qualifications?	This is a specialist qualification demonstrating the individual can safely carry out duties associated with working around utility services to a recognised level of competency.
Will the qualification lead to further learning?	Individuals who successfully complete this qualification could go on to increase their level of proficiency through consolidation practice within a working environment or develop other skills within the Utility Arboriculture suite of qualifications.
WHO SUPPORTS THIS QUALIFICATION?	
Employer/Higher Education Institutions	The Arboricultural Association
Further Information	Please refer to the City & Guilds NPTC website for more information on the assessment.

Assessment Guidance for the Candidate

A list of registered Assessment Centres is available from City & Guilds NPTC.
(www.nptc.org.uk)

Assessment is a process by which it is confirmed that the candidate is competent in the unit(s) within the award to which the assessment relates. It is the process of collecting evidence about the candidates' capabilities and judging whether that evidence is sufficient to attribute competence.

The Candidate must be registered through the City & Guilds approved Assessment Centre for this qualification prior to the assessment.

2 Qualification Structure

For the **City & Guilds Level 4 Certificate of Competence in ETR 132 Resilience Arboricultural Surveyor (0038-41)** learners must be trained and assessed in the unit listed below.

City & Guilds unit number	Unit title	GLH
Pre-requisite units:		
301	Utility arboriculture basic electrical knowledge	16
302	Utility arboriculture tree species recognition, growth characteristics and associated hazards	8
401	Utility arboriculture surveyor theory	16
402	Utility arboriculture surveyor – practical	8
Mandatory unit:		
Learners must achieve or must have achieved this mandatory unit.		
403	ETR 132 resilience arboriculture surveyor	16

Total Qualification Time (TQT)

Total Qualification Time (TQT) is the number of notional hours which represents an estimate of the total amount of time that could reasonably be expected for a learner to demonstrate the achievement of the level of attainment necessary for the award of a qualification.

TQT consists of the following two elements:

- the number of hours that an awarding organisation has assigned to a qualification for guided learning
- an estimate of the number of hours a learner will reasonably be likely to spend in preparation, study or any other form of participation in education or training, including assessment, which takes place as directed by – but, unlike guided learning, not under the immediate guidance or supervision of – a lecturer, supervisor, tutor or other appropriate provider of education or training.

Title and level	GLH	TQT
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3 Centre requirements

Approval

Full approval

To offer this qualification, new centres will need to gain both centre and qualification approval. Please refer to the document **Centre Approval process: Quality Standards** for further information. Please email qasupport@cityandguilds.com for further information on the approval process.

Centre staffing

Staff delivering these qualifications must be able to demonstrate that they meet the following requirements:

- be technically competent in the areas in which they are delivering
- be able to deliver across the breadth and depth of the content of the qualification being taught
- have recent relevant teaching and assessment experience in the specific area they will be teaching, or be working towards this
- demonstrate continuing CPD.

Centre staff should familiarise themselves with the structure, content and assessment requirements of the qualification before delivering a course programme.

Physical resources

Centres must be able to demonstrate that they have access to the equipment and technical resources required to deliver this qualification and its assessments.

Assessment Guidance for the Assessor

Staff assessing these qualifications must be approved Certificate of Competence City & Guilds NPTC Assessors and must be independent and cannot have been involved with the training of the Candidate. This qualification can only be assessed by an Assessor who is suitably qualified and meets the requirements of the awarding body.

Certificate of Competence City & Guilds NPTC Assessors must meet the following requirements:

- show competence and provide evidence of industry expertise in the qualification/s they wish to assess
- hold the qualification as a candidate and have been technically evaluated as an Assessor
- be up to date with their verification and relevant first aid
- demonstrate continuing technically relevant CPD

Compliance with these requirements is a pre-requisite for Assessors remaining on the list of approved Assessors.

Verification is a process of monitoring assessment; it is an essential check to confirm that the assessment procedures are being carried out in the way City & Guilds has laid down. The overall aim of verification is to establish a system of quality assurance that is acceptable in terms of both credibility and cost effectiveness and approved Assessors will be subject to a regular visit by the Verifier at a time when assessments are being undertaken.

A selection of assessment reports completed by the Assessor will be evaluated by a City & Guilds approved Quality Consultant.

Safe Practice

Appropriate PPE must be worn at all times.

All equipment must be operated in such a way that the Candidate, Assessor, other persons, animals or other equipment are not endangered.

If these conditions are not observed this will result in the Candidate not meeting the required standard.

Validation of Equipment

Any item(s) equipment used for the assessment must comply with current legal requirements.

Additional information may be sought from the relevant manufacturer's instruction book, operators' manual, product label/database or any other Government/Government Agency publication.

Appeals and Equal opportunities

Centres must have their own auditable, appeals procedures. If a Candidate is not satisfied with the examination conditions or a Candidate feels the opportunity for examination is being denied, the Centre Manager should, in the first instance, address the problem. If, however the problem cannot be resolved, City & Guilds will arbitrate and a Principal Verifier may be approached to offer independent advice.

All appeals must be clearly documented by the Centre Manager and made available to the Principal Verifier or City & Guilds if advice is required.

Should occasions arise when Centres are not satisfied with any aspect of the verification process, they should contact the Quality Assurance Manager at City & Guilds NPTC, 5-6 Giltspur Street, London, EC1A 9DE, UK. Access to the qualification is open to all, irrespective of gender, race, creed or special needs. Subject to H&S restrictions the Centre Manager should ensure that no learner is subjected to unfair discrimination on any grounds in relation to access to assessment and to the fairness of the assessment. QCA requires City & Guilds to monitor centres to check whether equal opportunities policies are being adhered to.

Quality assurance

Approved centres must have effective quality assurance systems to ensure optimum delivery and assessment of qualifications. Quality assurance includes initial centre approval, qualification approval and the centre's own internal procedures for monitoring quality. Centres

are responsible for internal quality assurance and City & Guilds is responsible for external quality assurance. All external quality assurance processes reflect the minimum requirements for verified and moderated assessments, as detailed in the Centre Assessment Standards Scrutiny (CASS), section H2 of Ofqual's General Conditions. For more information on both CASS and City & Guilds Quality Assurance processes visit: the **What is CASS?** and **Quality Assurance Standards** documents on the City & Guilds website.

Standards and rigorous quality assurance are maintained by the use of:

- Internal quality assurance
- City & Guilds external quality assurance.

In order to carry out the quality assurance role, Internal Quality Assurers must

- have appropriate teaching and vocational knowledge and expertise
- have experience in quality management/internal quality assurance
- hold or be working towards an appropriate teaching/training/assessing qualification
- be familiar with the occupation and technical content covered within the qualification.

External quality assurance for the qualification will be provided by City & Guilds EQA process. EQAs are appointed by City & Guilds to approve centres, and to monitor the assessment and internal quality assurance carried out by centres. External quality assurance is carried out to ensure that assessment is valid and reliable, and that there is good assessment practice in centres.

The role of the EQA is to:

- provide advice and support to centre staff
- ensure the quality and consistency of assessments and marking/grading within and between centres by the use of systematic sampling
- provide feedback to centres and to City & Guilds.

Learner entry requirements

Candidates must meet minimum age requirements.

Candidates must have achieved the pre-requisites detailed in Qualification at a Glance.

Age restrictions

This qualification is approved for learners aged 18 or above.

Access arrangements and reasonable adjustments

Access arrangements are adjustments that allow candidates with disabilities, special educational needs, and temporary injuries to access the assessment and demonstrate their skills and knowledge without changing the demands of the assessment. These arrangements must be made before assessment takes place.

The Equality Act 2010 requires City & Guilds to make reasonable adjustments where a disabled person would be at a substantial disadvantage in undertaking an assessment.

It is the responsibility of the centre to ensure at the start of a programme of learning that candidates will be able to access the requirements of the qualification.

Please refer to the JCQ access arrangements and reasonable adjustments and Access arrangements - when and how applications need to be made to City & Guilds for more

information. Both are available on the City & Guilds website: **Access arrangements and reasonable adjustments.**

4 Delivering the qualification

Initial assessment and induction

An initial assessment of each learner should be made before the start of their programme to identify:

- if the learner has any specific training needs
- support and guidance they may need when working towards their qualification.
- any units they have already completed or credit they have accumulated which is relevant to the qualification
- the appropriate type and level of qualification.

We recommend that centres provide an induction programme so the learner fully understands the requirements of the qualification, their responsibilities as a learner and the responsibilities of the centre. This information can be recorded on a learning contract.

Inclusion and diversity

City & Guilds is committed to improving inclusion and diversity within the way we work and how we deliver our purpose which is to help people and organisations develop the skills they need for growth.

More information and guidance to support centres in supporting inclusion and diversity through the delivery of City & Guilds qualifications can be found here:

Inclusion and diversity | City & Guilds ([cityandguilds.com](https://www.cityandguilds.com))

Sustainability

City & Guilds are committed to net zero. Our ambition is to reduce our carbon emissions by at least 50% before 2030 and develop environmentally responsible operations to achieve net zero by 2040 or sooner if we can. City & Guilds is committed to supporting qualifications that support our customers to consider sustainability and their environmental footprint.

More information and guidance to support centres in developing sustainable practices through the delivery of City & Guilds qualifications can be found here:

Our Pathway to Net Zero | City & Guilds ([cityandguilds.com](https://www.cityandguilds.com))

Centres should consider their own carbon footprint when delivering this qualification and consider reasonable and practical ways of delivering this qualification with sustainability in mind. This could include:

- reviewing purchasing and procurement processes (such as buying in bulk to reduce the amount of travel time and energy, considering and investing in the use of components that can be reused, instead of the use of disposable or single use consumables)
- reusing components wherever possible

- waste procedures (ensuring that waste is minimised, recycling of components is in place wherever possible)
- minimising water use and considering options for reuse/salvage as part of plumbing activities wherever possible

Support materials

The following resources are available for this qualification:

Description	How to access
Candidate Handbook	www.nptc.org.uk
Assessment Pack (available only to assessors)	www.nptc.org.uk

5 Assessment

Assessment of the qualification

Assessment types			
Unit	Title	Assessment method	Where to obtain assessment materials
403	ETR 132 resilience arboricultural surveyor	Oral Examination and Practical observation Centres may use the materials provided by City & Guilds.	www.nptc.org.uk

Assessment strategy

City & Guilds has written the practical observations with oral questioning to use with this qualification, live assessment materials can be downloaded by the assessor via the Assessment Pack from the NPTC website.

Time constraints

The following must be applied to the assessment of this qualification:

- Candidates must finish their assessment within 24 months of date of initial registration.
- The practical observation and oral questioning should take between **2 – 4 hours**.
- is valid for two years.

6 Units

Structure of the units

These units each have the following:

- City & Guilds reference number
- title
- level
- guided learning hours (GLH)
- unit aim
- assessment type
- learning outcomes, which are comprised of a number of assessment criteria

Guidance for delivery of the units

This qualification comprises one **unit**. A unit describes what is expected of a competent person in particular aspects of their job.

The **unit** is divided into **learning outcomes** which describe in further detail the skills and knowledge that a candidate should possess.

Each **learning outcome** has a set of **assessment criteria** (performance and knowledge and understanding) which specify the desired criteria that must be satisfied before an individual can be said to have performed to the agreed standard.

Unit 403

ETR 132 resilience arboriculture surveyor

Level:	4
GLH:	16
Assessment type:	Practical activities with oral assessment.
Aim:	The aim of this unit is to provide the learner with the knowledge, understanding and skills required to carry out a ETR 132 resilience arboriculture survey.

Learning outcome

The learner will:

LO1 Understand the requirements of ETR 132 Resilience Arboricultural Surveyor (**Criteria 1.1-1.10**)

Assessment criteria

The learner can:

- AC1.1 Hazards, risks and controls
- AC1.2 Reasons behind undertaking an Electrical Technical Report ETR 132 survey
- AC1.3 Office-based pre-survey
- AC1.4 Tree inspection equipment
- AC1.5 Survey information
- AC1.6 Fungal decay organisms, notifiable pests and diseases
- AC1.7 Factors for hardwood woodlands and softwood forestry plantations
- AC1.8 Risk rating
- AC1.9 Machinery for tree management
- AC1.10 Tree inspection

Topic 1.1

Identify hazards, risks, and controls relevant to the site and task.

Topic 1.2

The reasons behind undertaking an Electrical Technical Report ETR 132 survey may include:

- government stipulation as part of the ESQCR regulations 2006 amendment
- provide network resilience in both normal and adverse weather conditions
- helps to maintain a continuous supply to homeowners and business
- a proactive approach can be cost effective for network operators and stakeholders

- reduces the chances of overhead operatives reinstalling network during unsociable hours in potentially dangerous conditions
- required work has the timescale to be meticulously planned
- other

Topic 1.3

The elements covered with an office-based pre-survey, prior to visiting site may include:

- landownership
- number of consumers affected
- environmental restrictions, e.g., SSSI
- restricted areas
- ancient monuments
- EPS present on site
- generation issues windfarms, solar
- other utilities
- critical infrastructure
- other

Topic 1.4

Equipment that could assist in the process of inspecting trees for safety reasons may include:

- diameter (DBH) tape
- 30m measuring tape
- probe
- compass
- torch
- mallet
- trowel
- binoculars
- mobile phone
- clinometer/Laser range finder
- knife with retractable blade
- recording equipment (pens, paper, or tablet)
- reference material
- other

Topic 1.5

State the minimum level of data to be recorded:

- circuit/line name/identification
- voltage
- pole numbers
- tree/site number
- species
- age class
- height
- spread
- distance from conductors
- tree category
- condition/details of defects

- direction of lean if applicable
- risk rating
- management recommendations
- live line /dead line working
- time/staff/equipment required
- details of access/egress
- details regarding disposal of arisings

Different methods of identifying that a tree is within falling distance of the overhead network may include:

- laser range finder
- clinometer and measuring tape
- reference to known distances
- experience
- other

Tree defects and indicators to be recorded on a resilience tree survey may include:

- root heave
- undermining of root system
- cavities
- fruiting bodies
- staining/bacterial infections
- stem bleeds
- insect damage
- included/compression unions
- cracking/splitting
- flaking bark
- hazard beams
- reaction wood/adaptive growth
- crown dieback
- thinning crown
- major deadwood
- storm damaged/hanging branches
- other

Topic 1.6

Identification and knowledge of principal fungal decay organisms:

Armillaria mellea (honey fungus):

- host – wide range of conifers and broadleaves
- area affected – lower stem
- type of decay – white rot

Management recommendations:

- removal of the tree,
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Kretzschmaria deusta (brittle cinder):

- host – wide range of broadleaves
- area affected – buttresses, roots and pollard points

- type of decay – soft rot in early stages, a white rot may develop

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Meripilus giganteus (giant polypore):

- host – common on beech
- area affected – main root structure
- type of decay - white rot but with soft rot in early stages

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Inonotus hispidus (shaggy/velvet bracket)

- host – broadleaves, mainly ash
- area affected – upper stem and principal branches
- type of decay – simultaneous white rot

Management recommendations:

- removal of infected limbs, possible removal of the tree if the main stem is compromised.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Heterobasidion annosum (Fomes root rot):

- host - range of conifers and broadleaves
- area affected – roots then stem
- white pocket rot

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Phellinus ignarius (willow bracket):

- host – mainly willow
- area affected – main stems
- type of decay – white rot

Management recommendations:

- removal of infected limbs, possible removal of the tree if the main stem is compromised.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Fomitopsis betulina (birch polypore):

- host – birch
- area affected – main stems
- type of decay – brown rot

management recommendations:

- removal of infected limbs, possible removal of the tree if the main stem is compromised.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Fistulina hepatica (beefsteak fungus):

- host – oak and sweet chestnut
- area affected – heartwood
- type of decay – brown rot

Management recommendations:

- This fungus remains largely benign regarding its impact on the tree, long standing decay can cause structural failure, assess the magnitude of colonisation, removal in extreme circumstances.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Ganoderma species (artists bracket):

- host – broadleaves
- area affected – buttresses, main stems
- type of decay – white rot

Management recommendations:

- assess the magnitude of colonisation, removal in extreme circumstances.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Grifola frondosa (hen of the woods):

- host – oak and hornbeam.
- area affected – central root plate or stem
- type of decay – soft rot in early stages then white rot

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations
- other.

Laetiporus sulphureus (chicken of the woods):

- host – broadleaves and conifers
- area affected - roots, buttresses, main stems and branches
- type of decay – brown rot

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Cerioporus squamosus (dryad's saddle):

- host – broadleaves
- area affected - main stem and branches
- type of decay - white rot

Management recommendations:

- removal of infected limbs, possible removal of the tree if the main stem is compromised.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Sparassis crispa (cauliflower fungus):

- host – conifers
- area affected – roots and main stem
- types of decay – brown rot

Management recommendations:

- this is a weak parasite, infected trees can live for many years, assess condition of the tree at time of survey, eventual removal will be required,
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Phaeolus schweinitzii (dyer's mazegill):

- host – conifers
- area affected – roots
- type of decay – brown rot

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Perenniporia fraxinea (giant ash bracket):

- host – ash
- area affected – buttresses and roots
- type of decay – white rot

Management recommendations:

- removal of the tree, preferably by mechanical means
- a comprehensive work at height assessment should be undertaken before any aerial operations.

Rigidoporus ulmarius (giant elm bracket):

- host – broadleaves
- area affected – buttresses
- type of decay – brown rot

Management recommendations:

- relatively weak pathogen however removal of the tree is necessary, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Pseudoinonotus dryadeus (Eiffel Tower bracket):

- host – oak, occasionally beech
- area affected – central buttresses
- type of decay – selective delignification

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Pholiota squarrosa (shaggy scalycap):

- host – broadleaves
- area affected – buttresses and principal roots
- type of decay – white rot

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations
- other.

Pleurotus ostreatus (oyster mushroom):

- host – broadleaves
- area affected – main stem and principal branches
- white rot
- other

Management recommendations:

- removal of the tree, preferably by mechanical means.
- a comprehensive work at height assessment should be undertaken before any aerial operations.
- other

Notifiable pests and diseases:

Phytophthora ramorum (ramorum disease)

- host – larch, sweet chestnut
- spread – waterborne

Management recommendations:

- *contact regional forestry bodies
- removal of the tree, preferably by mechanical means
- a comprehensive work at height assessment should be undertaken before any aerial operations
- consider biosecurity measures and follow current guidance for disposal of arisings including timber.

Hymenoscyphus fraxineus (ash dieback):

- host – ash
- spread – wind, movement of infected plants and timber

Management recommendations:

- *contact regional forestry bodies
- removal of the tree, preferably by mechanical means
- a comprehensive work at height assessment should be undertaken before any aerial operations
- consider biosecurity measures and follow current guidance for disposal of arisings.

Thaumetopoea processionea (oak processionary moth):

- host – oak
- spread – eggs laid on host trees

Management recommendations:

- *contact regional forestry bodies
- do not disturb, health hazard.
- removal should be undertaken by approved contractors
- monitor tree for leaf loss.

Dendroctonus micans (great spruce bark beetle):

- host – spruce and pine
- spread – beetle movements

Management recommendations:

- contact regional forestry bodies and follow advice.

Topic 1.7

Factors to be considered when dealing with hardwood woodlands in relation to resilience requirements

- Compensation for landowners.
- Spread of disease.
- Windfirm edges.
- Adverse ground conditions.
- Harvesting machinery to be used.
- GS6 requirements.
- Felling license requirements.
- Adhere to good forest practice regarding processing and extraction.
- Replanting.
- Timing of works.
- Historical treatment/owner requirements.
- Silvicultural thinning.
- Historical/archaeological features/importance.

Factors that must be considered when dealing with commercial softwood forestry plantations in relation to resilience requirements:

- Age of planting.
- Species.
- Ground conditions.
- Windthrow hazard classification.
- “Red zone” harvesting and ENA ER G96.
- Felling licence implications including all environmental considerations in line with new licence requirements.
- Forestry produce, felling and extraction methods.
- Stump treatment.
- Site watercourse management.
- Replanting requirements.
- GS6 requirements.
- Owner requirements/ compensation for early felling.

Topic 1.8

Key factors included in risk rating:

- probability of failure occurring.
- severity of the damage.
- people/property/equipment present – target.
- frequency of use.

- overhead electrical network -100% target – constantly present.
- other.

Topic 1.9

Different machinery to aid safe and efficient tree management:

Mobile Elevating Work Platform (MEWP):

- wide range of MEWP's are now available and can eliminate the need to use a climber in a tree with known defects.

Remote controlled winch/mulcher:

- can be fitted with attachments such as a winch for controlled felling and mulcher to improve access to trees.

360' Excavator:

- 360' excavators can be fitted with attachments such as a timber grab to move timber on site.

Articulated telescopic telehandler:

- articulated telescopic telehandler can be fitted with grapple saws or timber shears to safely dismantle trees.
- other.

Considerations when using machinery in proximity to the network:

- whether the use of certain machinery requires the line to be isolated
- GS6 regulations may apply
- operators should be suitably trained and competent
- other.

Topic 1.10

Carry out a tree inspection, record the findings and state recommendations.

Carry out a visual tree assessment:

- accurate network location established
- tree species correctly identified
- reference number attributed
- generic data collected
- (height, spread, weighting, age class, tree category)
- defects correctly identified
- appropriate risk rating given
- suitable management recommendation and timeframe for work to commence
- correct allocation of time/staff/equipment
- disposal of arisings

All activities must be completed in a way which protects the operator and those around them, consistent with relevant legislation and industry good practice.

Supporting information

Evidence requirements

One to one practical assessment with oral questioning by an NPTC City & Guilds approved assessor.

Unit guidance

Candidates must successfully achieve all assessment activities in this unit.

Safe Practice

Assessors must hold a current 'First Aid at Work' Certificate.

It is strongly recommended that Candidates hold at least a recent, recognised 'Emergency First Aid' Training Certificate.

Candidates should be familiar with the machine that they are going to operate.

Appropriate Personal Protective Equipment (PPE) must be worn at all times.

A First Aid kit meeting current regulations, of the appropriate size for the number of persons on site, must be available.

The Assessor must ensure a Risk Assessment is carried out, and sufficient control measures implemented.

All equipment being used for this assessment must comply with relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998 and Lifting Operations and Lifting Equipment Regulations (LOLER) 1998.

Information may be sought from the relevant operator manuals or any other appropriate training or safety publication.

Provision must be made to avoid the risk of environmental pollution and adequate control measures must be implemented (a suitable response kit to be available on the machine).

It is the responsibility of the Assessor and the Candidate to ensure that any additional requirements and provisions are met as relevant to this qualification.

Candidates must comply with current regulations when working at heights regulations 2005 amended.

A breach of Health and Safety that puts any person at risk during the assessment process will result in the assessment being terminated and the Candidate not meeting the required standard.

Candidates who undertake this assessment and have met the requirements are reminded of their legal obligation to receive/undertake appropriate additional training in the use of any equipment that differs from that used during the assessment, but which they are nevertheless qualified to use.

Suggested learning resources

May be sought from the relevant manufacturer's manuals or any other appropriate training or safety publication.

Appendix 1 Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. They should be referred to in conjunction with this handbook. To download the documents and to find other useful documents, go to the **Centre document library** on **www.cityandguilds.com** or click on the links below:

Centre Handbook: Quality Assurance Standards

This document is for all approved centres and provides guidance to support their delivery of our qualifications. It includes information on:

- centre quality assurance criteria and monitoring activities
- administration and assessment systems
- centre-facing support teams at City & Guilds/ILM
- centre quality assurance roles and responsibilities.

The Centre Handbook should be used to ensure compliance with the terms and conditions of the centre contract.

Centre Handbook: Quality Assurance Standards

This document sets out the minimum common quality assurance requirements for our regulated and non-regulated qualifications that feature centre-assessed components. Specific guidance will also be included in relevant qualification handbooks and/or assessment documentation.

It incorporates our expectations for centre internal quality assurance and the external quality assurance methods we use to ensure that assessment standards are met and upheld. It also details the range of sanctions that may be put in place when centres do not comply with our requirements or actions that will be taken to align centre marking/assessment to required standards. Additionally, it provides detailed guidance on the secure and valid administration of centre assessments.

Access arrangements: When and how applications need to be made to City & Guilds

provides full details of the arrangements that may be made to facilitate access to assessments and qualifications for candidates who are eligible for adjustments in assessment.

The **Centre document library** also contains useful information on such things as:

- conducting examinations
- registering learners
- appeals and malpractice.

Useful contacts

Please visit the Contact us section of the City & Guilds website, **Contact us**.

About City & Guilds

City & Guilds is the global skills partner, empowering people, organisations and economies to develop the skills they need for growth. With almost 150 years of trusted expertise, we support people into work, help them develop on the job and move into the next job.

We work with Governments, employers, training providers, colleges and industry stakeholders to design and deliver high-quality training, qualifications, assessments and credentials that lead to meaningful career progression. We understand the life changing link between skills development, social mobility and success. Our solutions span critical sectors including construction, engineering, transport, energy and electrical, serving over 1 million learners annually.

Through our comprehensive portfolio of brands and trusted global network, we set industry-wide standards for technical, behavioural and commercial skills to improve performance and productivity. We believe you can achieve your potential - and we're here to help make it happen.

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